
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

 ATTY. DOCKET NO.
2653/40

 SERIAL NO.
09/724,797

 APPLICANTS
JON S. THORSON

 FILING DATE
November 28, 2000

 GROUP 1636
~~To be Assigned~~
U. S. PATENT DOCUMENTS

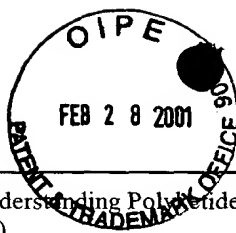
EXAMINER INITIAL	CITE No.	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
ssp	1	5,264,586	November 23, 1993	Nicolaou et al.	_____	_____
	2	5,384,412	January 24, 1995	Nicolaou et al.	_____	_____
	3	5,436,361	July 25, 1995	Jones et al.	_____	_____
	4	5,550,246	August 27, 1996	Nicolaou et al.	_____	_____
	5	5,739,116	April 14, 1998	Hamann et al.	_____	_____
	6	5,767,285	June 16, 1998	Hamann et al.	_____	_____
	7	5,773,001	June 30, 1998	Hamann et al.	_____	_____
✓	8	5,877,296	March 2, 1999	Hamann et al.	_____	_____

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	CITE No.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIAL	CITE No.	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
ssp	9	Altschul, S.F., et al., "Issues in Searching Molecular Sequence Databases", Nature Genetics, Vol. 6, pp. 119-129 (1994).
	10	Baum, E.Z., et al., "Transcription from the P1 Promoters of Micromonospora echinospora in the Absence of Native Upstream DNA Sequences", J. Bacteriol., Vol. 171, No. 12, pp. 6503-6510 (1989).
	11	Baum, EX., et al., "Temporally Regulated Tandem Promoters in Micromonospora echinospora", J. Bacteriol., Vol. 170, No. 1, pp. 71-77 (1988).
	12	Borisova, Svetlana A., et al., "Biosynthesis of Desosamine: Construction of a New Macrolide Carrying a Genetically Designed Sugar Moiety", Org. Lett., Vol. 1, pp. 133-136 (1999).
	13	Cane, D.E., et al., "Macrolide Biosynthesis. 7. Incorporation of Polyketide Chain Elongation Intermediates into Methymycin", J. Am. Chem. Soc., Vol. 115, pp. 522-526 (1993).
	14	Fujii, I., et al., "Anthracycline Biosynthesis in Streptomyces Galilaeus", Chem. Rev., Vol. 97, Nos. 7-8, pp. 2511-2523 (1977).
	15	Hallis, T.M., et al., "Learning Nature's Strategies for Making Deoxy Sugars: Pathways, Mechanisms, and Combinatorial Applications", Acc. Chem. Res., pp. 579-588, in press (1999).
	16	He, X., et al., "Probing the Coenzyme and Substrate Binding Events of CDP-p-Glucose 4,6-Dehydratase: Mechanistic Implications", Biochem., 35, 4721-4731 (1996).
	17	Hinman, L.M., et al., "Preparation of Conjugates to Monoclonal Antibodies", Enegyne Antibiotics as Antitumor Agents, pp. 87-105 (1995).
✓	18	Hinman, L.M., et al., "Preparation and Characterization of Monoclonal Antibody Conjugates of the Calicheamicins: A Novel and Potent Family of Antitumor Antibiotics", Cancer Res., Vol. 53, No. 14, 3336-3342 (1993).



SSP	19	Hopwood, D.A., "Genetic Contributions to Understanding Polyketide Synthases", Chem. Rev., Vol. 97, Nos. 7-8, pp. 2465-2497, pp. 2465-2497 (1997).
	20	Hopwood, D.A., et al., "Molecular Genetics of Polyketides and Its Comparison to Fatty Acid Biosynthesis", Ann. Rev. Genet., Vol. 24, pp. 37-66, (1990).
	21	Hutchinson, C.R., et al., "Biosynthetic Studies of Daunorubicin and Tetracenomycin C", Chem. Rev., Vol. 97, pp. 2525-2535 (1977).
	22	Kakavas, S.J., et al., "Identification and Characterization of the Niddamycin Polyketide Synthase Genes from Streptomyces Caelesstis", J. Bacteriol., Vol. 179, No. 23, pp. 7515-7522 (1997).
	23	Karlin, S., et al., "Applications and Statistics for Multiple High-Scoring Segments in Molecular Sequences", Nat'l Acad. Sciences, U.S.A., 90, pp. 3873-5877 (1993).
	24	Lin, L.S., et al., "Micromonospora RNA Polymerase Activity Changes During Stationary Phase", J. Gen. Microbiol., Vol., Part 9, 138, pp. 1881-1885 (1992).
	25	Lin, L.S., et al., "Mutations in the P1 Promoter Region of Micromonospora Echinospora", J. Bacteriol., Vol. 174, No. 10, pp. 3111-3117 (1992).
	26	Liu, H-w., et al., "Pathways and Mechanisms in the Biogenesis of Novel Deoxysugars by Bacteria", Ann. Rev. Microbiol., Vol. 48, pp. 223-256 (1994).
	27	Lode, H.N., et al., "Targeted Therapy with a Novel enediyne Antibiotic Calicheamicin θ_1 , Effectively Suppresses Growth and Dissemination of Liver Metastases in a syngeneic Model of Murine Neuroblastoma", Cancer Res., Vol. 58, No. 14, pp. 2925-2928 (1988).
	28	Marsden, A.F.A., et al., "Engineering Broader Specificity Into an Antibiotic-Producing Polyketide Synthase", Science, Vol. 279, pp. 199-201 (1998).
	29	McGahren, W.J., et al., "Disulfide Calicheamicins and the Chemistry of the Allylic Trisulfide Group", Enediyne Antibiotics as Antitumor Agents, pp. 75-86 (1995).
	30	Rothstein, D.M., "Genetic Analysis of Calicheamicin Biosynthesis", Enediyne Antibiotics As Antitumor Agents, p. 2 (1995).
	31	Siegel, M.M., et al., "Calicheamicin Derivatives Conjugated to Monoclonal Antibodies: Determination of Loading Values and Distributions by Infrared and UV Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry and Electrospray Ionization Mass Spectrometry", Anal. Chem., Vol. 69, No. 14, pp. 2716-2726 (1997).
	32	Sievers, E.L., et al., "Selective Ablation of Acute Myeloid Leukemia Using Antibody-targeted Chemotherapy: A Phase I Study of an Anti-CD33 Calicheamicin Immunoconjugate", Blood, Vol. 93, No. 11, pp. 3678-3684 (1999).
	33	Staunton, J., et al., "Biosynthesis of Erythromycin and Rapamycin", Chem. Rev., Vol. 97, Nos. 7-8, pp. 2611-2629 (1977).
	34	Strohl, W.R., et al., "Anthracyclines", Biotechnology of Antibiotics, 2 nd Ed., pp. 577-657.
	35	Thompson, M.W., et al., "Purification and Characterization of TDP-D-Glucose 4,6-Dehydratase From Anthracycline-Producing Streptomyces", J. Gen. Microbiol., Vol. 138, pp. 779-786 (1992).
	36	Wang, L. et al., "Organization of Escherichia Coli 0157 O Antigen Gene Cluster and Identification of Its Specific Genes", Infect. Immunol., Vol. 66, No. 8, pp. 3545-3551 (1998).
	37	Wrasidle, W., et al., "In Vivo Efficacy of Novel Synthetic Enediynes 1, Acta Oncologica, Vol. 34, No. 2, pp. 157-164 (1995).
	38	Zein, N., et al., "Calicheamicin γ_1 : An Antitumor Antibiotic That Cleaves Double-Stranded DNA Site Specifically", Science, Vol. 240, pp. 1198-1201 (1998).
	39	Zhao, L., et al., "Mechanistic Studies of Desosamine Biosynthesis: C-4 Deoxygenation Precedes C-3 Transamination", J. Am. Chem. Soc., Vol. 120, No. 46, pp. 12159-12160, (1998).
↓		

EXAMINER

Sita Pappu

DATE CONSIDERED

06/20/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.